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(58) Documents Cited
GB 2362520 A
GB 2357388 A
GB 2308707 A
US 6327484 B
US 5786106 A
GB 2361378 A
GB 2316783 A
WO 2002/009396 A2
US 6322396 B

(58) Field of Search
UK CL (Edition T) H2H HBCH , H4J JK JL , H4L LECTX LESF LEUX LRAX
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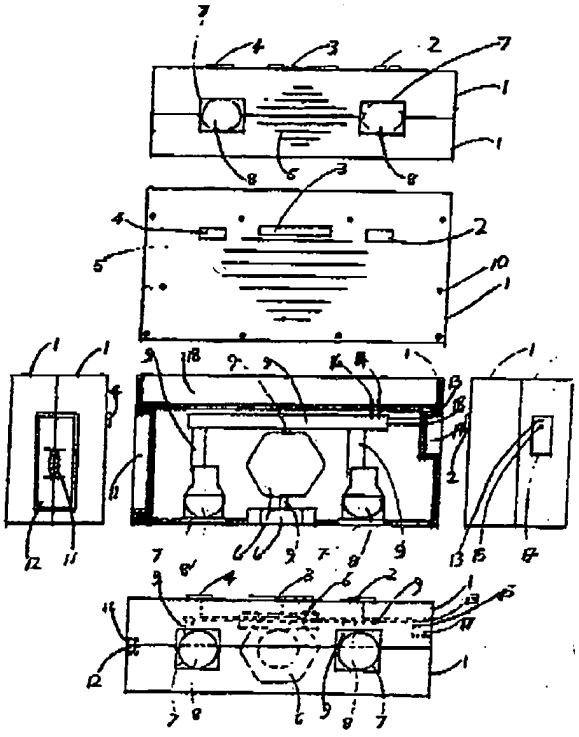
WPI, EPODOC, PAJ, INSPEC

(54) Abstract Title
Mobile phone attachment

(57) A mobile phone attachment comprising a torch, a laser, a spirit level and a personal alarm which can be used individually or simultaneously. The attachment connects to a mobile phone via the socket on the phone usually used to connect to a battery charger. The attachment is powered from the battery of the mobile phone, and this battery is recharged by plugging a charger into the attachment such that current flows through the attachment into the battery charger port, and then the battery is charged in the normal way.



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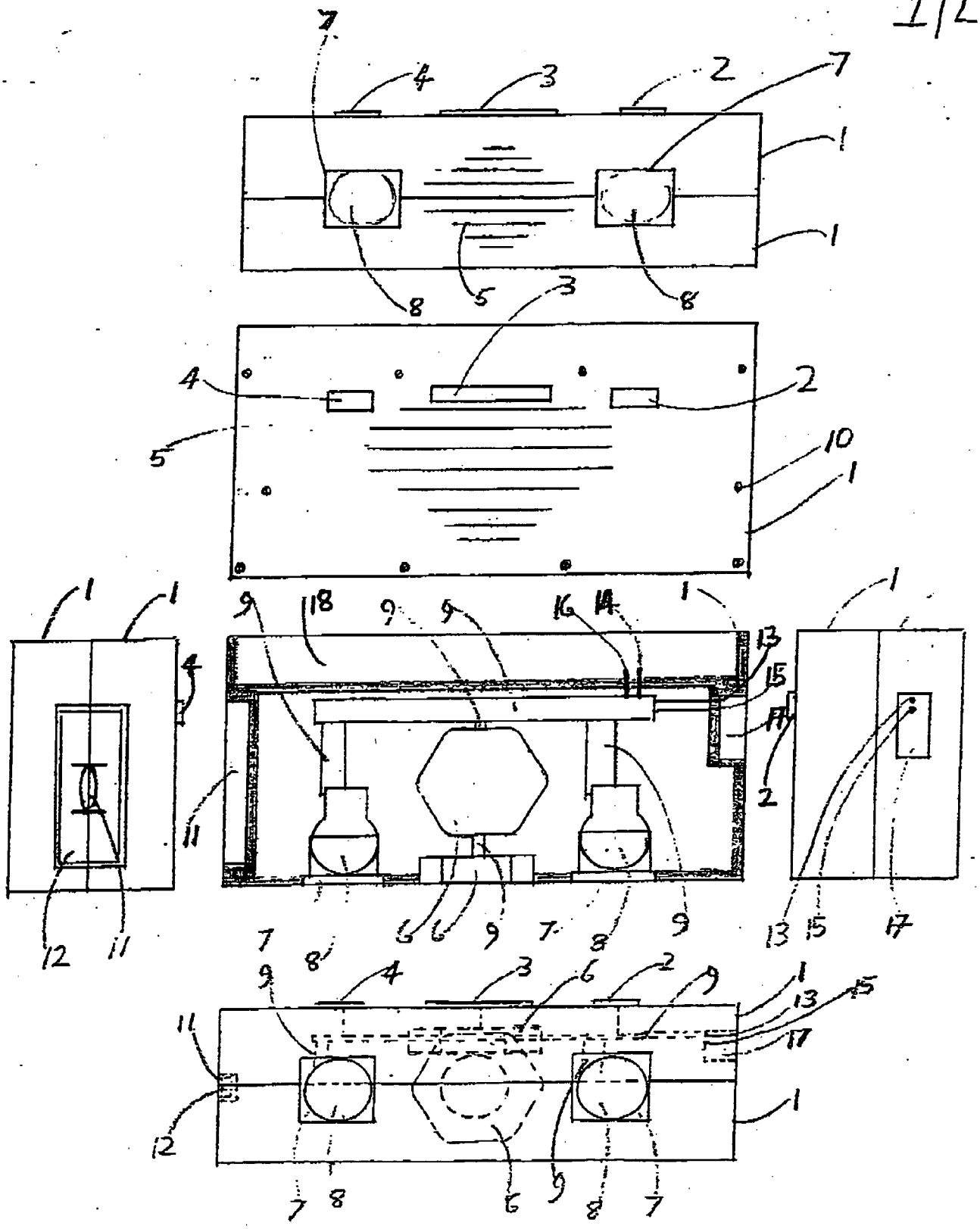

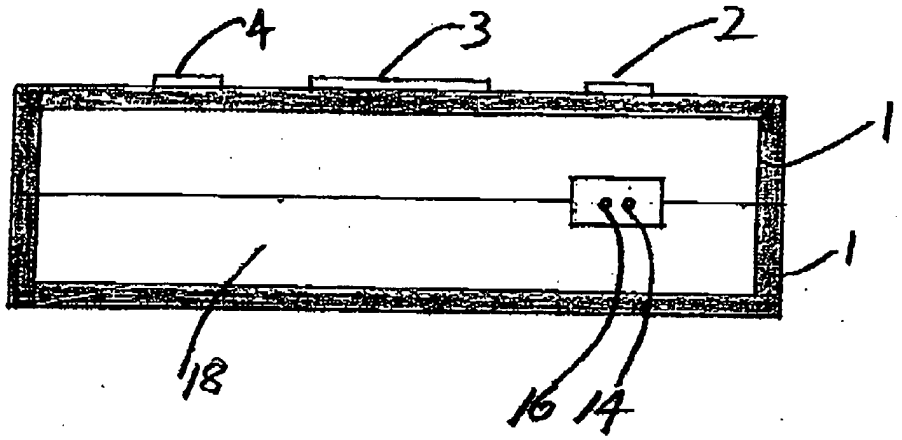
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Mobile Phone Attachment

The invention relates to a attachment to a mobile phone using the power from the mobile phone battery to activate a torch, lazer, and a personal alarm eliminating the purchase of batterys. A sprit level has also been incorporated into the attachment to allow the phone and attachment to be placed on a surface giving a flat surface reading the lazer can then be moved to give a true line on a surface.

Sutch an attachment will give a person a feeling of security if distressed or danger of being atacted the torch and lazer attachment will also give a bearing as to where the sound is coming from if in darkness.

Objects of this invention are to provide personal security be the mobile phone attachment emiting a loud distress sound and light from the torch or lazer when needed.

Accordingly this invention eliminates the use of purchasing batteries as the power is fed from the mobile phone battery which is charged by electric current or a car 12 volt battery.

Preferably the mobile phone attachments is made of metal, plastic or rubber materials of from a combination of these materials

The mobile phone attachment can be moulded in two halves or as one. Individual components can also be moulded in two halves or as one sutch as a torch attachment lazer or personal alarm.

A preferred embodiment of the invention will now be discribed with reference to accompanying drawing in which

1	This is the caseing
2	Is the press button on/off for the torch
3	Is the press button on/off for the alarm
4	Is the press button on/off for the lazer
5	Are the vents for the speakers 6 to releas the alarm sound
6	Shows the speakers
7	Is clear plastic to allow the light from the bulbs 8 to pass trough
8	Is the bulb which is powered by the circuit board 9
9	Gives power to the bulbs and the speakers 6
10	Is one of the screws holding the two caseings 1 together

11 Is the spirit level seated in the compartment 12

12 Is the compartment which holds the spirit level.

13 Is the positive feed for electricity to pass through the sercuit board to charge the mobile phone through 14 which is conected to the mobile phone.

14 Is the positive feed from the mobile phone battery to supply power to the sercuit board 9

15 Is the negative for electricity to pass through the sercuit board 9 through the negative feed 6 which is conected to the mobile phone battery

16 Is the negative which power passes through to the sercuit board 9 from the mobile phone battery

17 Is the compartment which holds the plug conecter from the electricity supply conected to 13 and 15 when charging the battery on the mobile phone through the sercuit board 9

18 Is the compartment which pushes onto and holds the mobile phone making positive and negative conections with 14 and 16 feeding power to the cercuit board 9

Claims
Mobile Phone Attachment

1. A mobile phone attachment that uses the power from the mobile phone battery to supply power to one or more componants fitted in to the mobile phone attachment namely a torch lazer or a personal alarm. The mobile phone can be charg through the attachment and into the mobile phone battery without removing the attachment

2. A mobile phone attachment as claimed in claim 1 each individual componant namely torch, lazer or personal alarm can be individualy or colectivly switched on using the power from the mobile phone battery.

3. A mobile phone attachment as claimed in any proceding claim which is powered by the mobile phone battery and thar which is attachable.

4. A mobile phone attachment as claimed in any proceding claim witch is made from meral, plastic or rubber materials or from a combination of these materials.

5. A mobile phone attachment substantially as herein discribed and illustrated in the accompanying drawings.

The Patent Office

INVESTOR IN PEOPLE

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Claims searched: All

Examiner: Ruth Atkinson
Date of search: 29 May 2002

Patents Act 1977
Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.T): H2H HBCH; H4L LECTX, LESF, LEUX, LRAX; H4J JK, JL

Int Cl (Ed.7): H02J 7/00 ;H04M 1/02, 1/21; H04Q 7/32

Other: Online: WPI, EPODOC, PAJ, INSPEC

Documents considered to be relevant:

Category	Identity of document and relevant passage		Relevant to claims
A, E	GB 2362520 A	(NEC CORP) See "Summary of the invention"	
A, E	GB 2361378 A	(BEALE) See figures	
A, E	GB 2357388 A	(PLAHA ET AL) See figures	
A	GB 2316783 A	(ERICSSON) See page 1	
A	GB 2308707 A	(HOOTON) See whole document	
A, E	WO 02/09396 A2	(TIVERON) See especially page 5 lines 12-21	
A, E	US 6327484 B1	(MATHEW) See figure 2	
A, E	US 6322396 B1	(KUAN) See figures 1 and 2 and "Summary of the invention"	
A	US 5786106	(ARMANI) See "Objects and advantages of the invention" and "Operation of the invention"	

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.